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29 July 2002 (29.07.2002) US

- (71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).
- (72) Inventor; and

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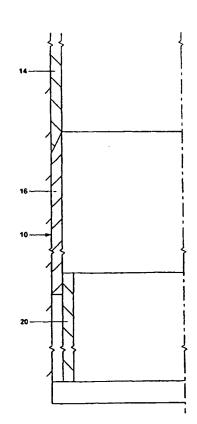
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, IIR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO.

[Continued on next page]

(54) Title: METHOD OF FORMING A MONO DIAMETER WELLBORE CASING



(57) Abstract: A method of forming a wellbore casing that includes positioning a first wellbore casing (14) within and coupling to a borehole (10), positioning a second wellbore casing (16) within the borehole that overlaps with and is coupled to the first wellbore casing (14), positioning a tubular liner (18) within the borehole that overlaps with and is coupled to at a least a portion of the second wellbore casing (16), extending the length of the borehole (10), decoupling the liner (18) from the second casing (16) and removing the liner from the borehole, and positioning a third wellbore casing (20) within the borehole that overlaps with and is coupled to the second wellbore casing (16).

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SE, SI, SK, TR). OAPI patent (BF, BJ, CF, CG, Cl, CM. (88) Date of publication of the international search report: GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

14 October 2004

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PCT/US2003/020870

AMENDED CLAIMS

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[received by the International Bureau on 20 July 2004 (20.07.04); claims 21 to 30 added]

21. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

positioning a tubular liner within the borehole; extending the length of the borehole; removing the tubular liner from the borehole; positioning a wellbore casing within the borehole; and coupling the wellbore casing to the borehole.

22. A method of forming a wellbore casing within a borlehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

positioning a tubular liner within the borehole that overlaps with and is coupled to at least a portion of the first wellbore casing;

extending the length of the borehole;

decoupling the tubular liner from the first wellbore casing and removing the tubular liner from the borehole; and

positioning a second wellbure casing within the boxehole that overlaps with and is coupled to the first wellbore casing.

23. A system for forming a wellbore easing within a berehole that traverses a subterranean formation, comprising:

means for positioning a tuhular liner within the borehole;
means for extending the length of the borehole;
means for removing the tubular liner from the borehole;
means for positioning a wellbore casing within the borehole; and
means for coupling the wellbore casing to the borehole.

24. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore easing within and coupling the first wellbore easing to the borehole;

means for positioning a tubular liner within the biprehole that overlaps with and is coupled to at least a portion of the first wellbore easing;

means for extending the length of the horehole;

means for decoupling the tubular liner from the first wellbore casing and removing the tubular liner from the borehole; and

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

25. A method of forming a wellhore casing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing;

preventing the second wellbore casing from collapsing,

extending the length of the borehole; and

positioning a third wellbore casing within the borehole that overlaps with and is coupled to the second wellbore casing.

26. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

preventing the borehole from collapsing, extending the length of the borehole; positioning a wellbore casing within the borehole; and coupling the wellbore casing to the borehole.

27. A method of forming a wellbore easing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole:

preventing the first wellbore casing from collapsing;

extending the length of the borehole; and

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

28. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

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means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore easing;

means for preventing the second wellbore casing from collapsing;

means for extending the length of the borehole; and

means for positioning a third wellbore easing within the borchole that overlaps with and is coupled to the second wellbore easing.

29. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for preventing the borehole from collapsing;
means for extending the length of the borehole;
means for positioning a wellbore casing within the borehole; and

means for coupling the wellbore casing to the borehole.

30. A system for forming a wellhore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

means for preventing the first wellbore casing from collapsing;

means for extending the length of the borehole; and

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

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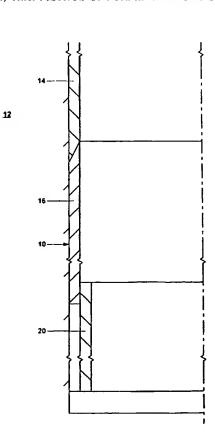
LLP, Suite 3100, 901 Main Street, Dallas, TX 75202 (US).

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- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: METHOD OF FORMING A MONO DIAMETER WELLBORE CASING



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GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Declaration under Rule 4.17:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/20870

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : E21B 7/20, 19/16, 43/10		RECEIV
US CL: 175/171; 166/380, 207, 208 According to International Patent Classification (IPC) or to both	mational classification and IPC	
B. FIELDS SEARCHED	MINIOTH CHASHINGTON MINISTER	OCT 2 2 20
Minimum documentation searched (classification system followed U.S.: 175/171; 166/380, 207, 208, 206, 216, 217, 277	d by classification symbols)	HAYNES & BOONE
Occumentation searched other than minimum documentation to the	he extent that such documents are included	d in the fields searched
Electronic data base consulted during the international search (na EAST: wellbore, casing, coupling, liner, decoupling, expanding,	ame of data base and, where practicable, s , mono diameter	earch terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		D. J
Category * Citation of document, with indication, where a		Relevant to claim No. 1, 3, 4, 6, 7, 11, 13,
	US 1,880,218 A (SIMMONS) 1 October 1930 (01.10.1930), Figures 3 and 4. US 6,543,552 B1 (METCALFE et al) 8 April 2003 (08.04.2003), Figures 1-5. US 4,483,399 A (COLGATE) 20 November 1984 (20.11.1984), Figure 2. US 6,598,678 B1 (SIMPSON et al) 29 July 2003 (29.07.2003), Figures 13 and 14. US 6,550,539 B2 (MAGUIRE et al) 22 April 2003 (22.04.2003), Figures 4a-4f.	
. US 6,598,678 B1 (SIMPSON et al) 29 July 2003 (
A US 6,550,539 B2 (MAGUIRE et al) 22 April 2003		
A US 6,070,671 A (CUMMING et al) 6 June 2000 ((06.05.2009), Figures 1-4.	3, 4, 6, 7, 9, 10, 13, 14, 16, 17, 19, 20
Further documents are listed in the continuation of Box C. Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier application or patent published on or after the international filling date	"T" later document published after the int date and not in conflict with the appli principle or theory underlying the low "X" document of particular relevance; the	ication but cited to understand the rention cannot be
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the considered to involve an inventive st combined with one or more other sweet being obvious to a person skilled in the consideration of t	ep when the document is the documents, such combination
"O" document referring to an oral disciosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same pater	
Date of the actual completion of the international search	Date of mailing of the international se	arch report
17 October 2003 (17.10.2003)	Authorized officer	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	David Bagnary	
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